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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/517,195	03/02/2000		Charles E. Young	30408-1001	4692
5179	7590	04/01/2005		EXAM	INER
PEACOCK	MYERS	S AND ADAMS P	REAGAN, JAMES A		
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DATE MAILED: 04/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
1		09/517,195	YOUNG, CHARLES E.
\checkmark	Office Action Summary	Examiner	Art Unit
. `	· · · · · · · · · · · · · · · · · · ·	James A. Reagan	3621
	The MAILING DATE of this communication ap		with the correspondence address
	or Reply		
THE - Extra after - If th - If N - Fai	MORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1 or SIX (6) MONTHS from the mailing date of this communication. He period for reply specified above is less than thirty (30) days, a re O period for reply is specified above, the maximum statutory period lure to reply within the set or extended period for reply will, by statusty reply received by the Office later than three months after the mail med patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may ply within the statutory minimum of t d will apply and will expire SIX (6) M to cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status			
1)区			
2a) <u></u>		is action is non-final.	
3)□	Since this application is in condition for allow	ance except for formal m	atters, prosecution as to the ments is
	closed in accordance with the practice under	r Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.
Dispos	ition of Claims		
4\l⊠	Claim(s) <u>21-23 and 25-57</u> is/are pending in t	he application.	
7/2	4a) Of the above claim(s) is/are withd	rawn from consideration.	
5)	Claim(s) is/are allowed.		
	Claim(s) 21-23 and 25-57 is/are rejected.		
	Claim(s) is/are objected to.		
8)[Claim(s) are subject to restriction and	d/or election requirement.	
Applica	ation Papers		
9)[The specification is objected to by the Exam	iner.	
10)[☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected	to by the Examiner.
	Applicant may not request that any objection to t	he drawing(s) be held in abe	yance. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the соп	ection is required if the draw	ing(s) is objected to. See 37 CFR 1.121(d).
11)[☐ The oath or declaration is objected to by the	Examiner. Note the attac	hed Office Action or form P1O-152.
1	y under 35 U.S.C. § 119		
12)[Acknowledgment is made of a claim for fore	ign priority under 35 U.S.	C. § 119(a)-(d) or (f).
1	a) ☐ All b) ☐ Some * c) ☐ None of:		
	 Certified copies of the priority docum 	ents have been received.	
	2. Certified copies of the priority docum	ents have been received	n Application No
]	3. Copies of the certified copies of the p		een received in this National Stage
1	application from the International Bu		- A ivad
	* See the attached detailed Office action for a	list of the certified copies	not received.
Attachn	nent(s)		
1) 🔯 N	lotice of References Cited (PTO-892)	·	ew Summary (PTO-413) No(s)/Mail Date
2) N	lotice of Draftsperson's Patent Drawing Review (PTO-948) nformation Disclosure Statement(s) (PTO-1449 or PTO/SB	/08) 5) Notice	of Informal Patent Application (PTO-152)
	aper No(s)/Mail Date	6) 🗌 Other	·

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DETAILED ACTION

Status of Claims

- 1. This action is in response to the amendment filed on 28 February 2005.
- 2. Claim 24 has been cancelled.
- 3. Claim 21 has been amended.
- 4. Claims 21-23 and 25-57 have been examined.

RESPONSE TO ARGUMENTS

Referring to the previous Office action, Examiner has cited relevant portions of the references as a means to illustrate the systems as taught by the prior art. As a means of providing further clarification as to what is taught by the references used in the first Office action, Examiner has expanded the teachings for comprehensibility while maintaining the same grounds of rejection of the claims, except as noted above in the section labeled "Status of Claims." This information is intended to assist in illuminating the teachings of the references while providing evidence that establishes further support for the rejections of the claims.

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

With regard to claims 30, 32-37, 41-43, 51, and 54, the common knowledge declared to be well-known in the art is hereby taken to be admitted prior art because the Applicant either failed to traverse the Examiner's assertion of Official Notice or failed to traverse the Examiner's assertion of Official Notice adequately.

To adequately traverse the examiner's assertion of Official Notice, the Applicant must specifically point out the supposed errors in the Examiner's action, which would include stating

why the noticed fact is not considered to be common knowledge or well-known in the art. A general allegation that the claims define a patentable invention without any reference to the Examiner's assertion of Official Notice would be inadequate. Support for the Applicant's assertion

of should be included.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious

at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention

was made.

7. Claims 21-23 and 25-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buxton

et al. (US 6,118,427 A) in view of Bell (US 5,424,945 A), and further in view of Zawilinski (US

5,676,138 A).

Examiner's Note: The Examiner has pointed out particular references contained in the prior art

of record within the body of this action for the convenience of the Applicant. Although the

specified citations are representative of the teachings in the art and are applied to the specific

limitations within the individual claim, other passages and figures may apply. Applicant, in

preparing the response, should consider fully the entire reference as potentially teaching all or

part of the claimed invention, as well as the context of the passage as taught by the prior art or

disclosed by the Examiner.

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Claims 21 and 40:

Buxton, as shown, discloses the following limitations:

- displaying an undivided display object on a display screen for a predetermined time to at least one viewer for the purposes of collecting viewer reactions to the display object (see at least Figures 1, 2, and 13-16, and associated text);
- collecting cognitive viewer reactions to at least one element of the display object after the at least one viewer has viewed the display object; (see at least Figure 4 and associated text);
- dividing the display object into a plurality of spatial regions after the step of displaying the display object to at least one viewer (see at least Figures 1, 2, and 13-16, and associated text);
- correlating the viewer reactions with the spatial regions of the display object;
 (see at least Table 1 and associated text);
- image processing, using a computer or other processor, the viewer reactions corresponding to each spatial region (see at least column 1, lines 15-20; column 2, line 41; column 7, line 48 to column 8, line 41).
- displaying to the decision maker the display object with at least one characteristic based on the viewer reactions corresponding to each spatial region (see at least column 1, lines 15-20; column 2, line 41; column 7, line 48 to column 8, line 41).

Buxton does not specifically disclose collecting cognitive viewer reactions. Bell, however, discloses a document (display object) is analyzed and given a visual aspect in view of certain criteria and a grid is electronically "placed" over the aspect (see at least column 7, lines 3-10), the grid is divided into a plurality of spatial regions being a matrix of cells as shown in at least Figure 3. Bell also discloses harmony of gradation can be evaluated using the grid system (see at least column 13, lines 26-57). In addition, Bell discloses when analyzing the document in terms of

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> psychological effect the users desires, sometimes the users desires are different from the graphic designer. Bell discloses a "consensus" is reached between the users desires (collecting viewer reactions to an exposure of a document (display objects) and the parameters of the system (see at least column 18, lines 22-41). Bell further discloses the user is asked questions to determine the psychological effect of the document (see at least column 18, lines 42-65). The "consensus" reached between the data from the computerized interview and the parameters of the system meets the limitation on collecting viewer reactions to an exposure of a document (display object). Bell goes on to discuss the psychological tests in column 18, lines 66-68 and all of column 19. As previously disclosed, Bell discloses a consensus is reached between the system parameters and the desires (viewer reactions) of the user based on questions in a test to determine the psychological effects. Bell discloses the in the electronic grid case, the selected region is simply one square in the grid, and the process of evaluating the image data associated with the area within the grid square is repeated for every grid square (column 14, lines 42-45). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the GUI-based user performance optimization system of Buxton with Bell's psychological analysis technique and system by applying the same techniques to a method that seeks to increase consumer awareness of a particular product by optimizing viewer reactions to matter such as advertisements, magazines and other printed publications, or electronic publications for the purpose of maximizing revenues, and measuring the response time or other similar cognitive viewer responses that would indicate increased viewer attention.

> The combination of Buxton/Bell does not disclose that the image is originally displayed undivided. Zawilinski, however, in at least Figure 2 shows images without a divider grid superimposed thereon. it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Buxton/Bell with Zawilinski because Zawilinski was disclosed in the background of the specification as relevant and pertinent to the instant invention. Ergo, Zawilinski is already known to those of ordinary skill in the art at the time of the invention.

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Claim 22:

With regard to the limitation of the viewer reactions comprise at least one cognitive response selected from the group consisting of memory of elements, likeability, appeal, purchase interest, relevance, and emotional response, the Buxton/Bell use of psychological evaluation as shown in the rejections above clearly envisage these viewer responses as

claimed.

Claims 23 and 53:

With regard to the limitation of the image processing step comprises correlating viewer responses with at least one characteristic selected from the group consisting of coloring, color saturation, transparency, superimposition, opacity and tingeing, see at least Buxton column 1, lines 15-20; column 2, line 41; column 7, line 48 to column 8, line 41.

Claim 24:

With regard to the limitation of the step of the displaying to the decision maker the display object comprises viewing at least one characteristic corresponding to each spatial region of the display object, see the rejection of claims 21 and 40 above.

Claim 25:

With regard to the limitation of the decision maker determining whether the display object elicited desired effects in the viewer, and strengths and weaknesses of each spatial region of the display object, this a necessary segment of the collecting step conducted in claims 21 and 40 as shown above. It would have been obvious to one of ordinary skill in the art at the time of the invention to evaluate the data collected to determine the relative value of differing regions of a display because the resulting data would determine which regions have the greatest desired impact upon a viewer.

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Claims 26, 27, and 46-48:

Buxton discloses the GUI-based user performance optimization system as shown above.

Buxton does not specifically disclose:

- displaying the object for a predetermined time of between approximately 1/4 second and 4 seconds.
- displaying the object to the viewer for a first short predetermined time;
- collecting first viewer reactions to the first short display;
- displaying the object to the viewer for a second longer predetermined time; and
- collecting second viewer reactions to the second longer display;
- said display for displaying an undivided display object displays said display object
 for at least one predetermined time exposure.
- said display for displaying an undivided display object displays said display object for a sequence of predetermined time exposures.

However, Buxton does disclose "A total of 576 trials were run for each user; 14 users were tested. Trials were presented in random order at 5 second intervals (see at least column 9, lines 30-32)." It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Buxton's use of the five second interval by employing diverse interval values, depending on the system requirements and the data gathering metrics, as well as the intent of the system, because adjusting the temporal display period would allow a system evaluator to observe dissimilar information that may not be readily apparent if the time intervals were not varied.

With regard to the limitation of displaying to the decision maker a plurality of images, wherein each image is derived from each of the collected viewer reactions, see at least Buxton, column 1, lines 15-20; column 2, line 41; column 7, line 48 to column 8, line 41.

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Claims 28, 29, 56, and 57:

With regard to the limitations of:

the displaying to the decision maker step comprises providing static images to

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the decision maker,

the displaying to the decision maker step comprises playing a movie of the

images to the decision maker.

See at least Buxton column 4, line 11.

Claims 30, 35, 36, 41, 42, and 43:

With regard to the limitations of:

displaying the display object on a computer screen;

displaying via a projector onto a surface;

a visual stimulus represented or projected on a two-dimensional surface;

The Examiner takes Official Notice that it would have been obvious to one of ordinary

skill in the art at the time of the invention that utilizing computer screens and projection devices

are old and well-known methods of displaying digital data because they are abundant and

easily adapted to variety of displaying tasks.

Claims 31 and 55:

With regard to the limitation of each spatial region comprises a cell of a matrix, see at

least Buxton Figures 1, 2, and 13-16, as well as the related text.

Claims 32-34, 37, 51, and 54:

Buxton/Bell disclose use of psychological evaluation as shown in the rejections above

Buxton/Bell do not specifically disclose:

recording remembered elements;

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- determining how long it takes the viewer to register the elements;
- recording the location on the screen where the viewer remembered seeing the elements;
- the at least one characteristic of a spatial region is determined by the percentage of viewers having reactions to one or more elements located in the spatial region.
- said processor determines a time length for viewers to register at least one element of the display object.

However, the Examiner takes **Official Notice** that it would have been obvious to one of ordinary skill in the art at the time of the invention to record relevant viewer response information because the resulting data would determine which variables have the greatest desired impact upon future viewers.

Claims 38, 39, 45, 49 and 50:

With regard to the limitations of:

- the display object comprises at least one object selected from the group consisting of a print advertisement, a page from a catalog, magazine, or other printed publication, an electronically published page, an Internet page, a CD-ROM page, a photograph, an artistic rendering, and a visual representation,
- the at least one element comprises an object selected from the group consisting of a headline, a character, a figure, a word, a package, a brand, and a logo.

See the rejection of claims 21 and 40 above.

Examiner's Note: Is it the intention of the Applicant to have claim 49 depending from claim 40, or from claim 50 as is written?

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Claim 44:

With regard to the limitation of display of the display object comprises a visual stimulus designed to communicate a specific set of messages in order to elicit a response from viewers of the display object, this step is intrinsically disclosed by the limitations of the preceding claims as being an obvious and necessary resultant component of gathering viewer responses.

Claim 52:

With regard to the limitation of viewer responses comprise at least one response selected from the group consisting of memory of elements, length of time for the view to register an element, location on the display where the viewer remembered seeing an element, likeability, appeal, purchase interest, relevance, an emotional response, and a cognitive response, see the rejections of claims 22, 33 and 34 as shown above.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **James A. Reagan** whose telephone number is **(703) 306-9131**. The examiner can normally be reached on Monday-Friday, 9:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **James Trammell** can be reached at (703) 305-9768.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist whose telephone number is (703) 305-3900. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR For information about the PAIR only. more system, see http://portal.uspto.gov/external/portal/pair . Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

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Washington, D.C. 20231

or faxed to:

(703) 305-7687 [Official communications; including

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(703) 308-1396 [Informal/Draft communications, labeled "PROPOSED"

or "DRAFT"]

Hand delivered responses should be brought to Crystal Park 5, 2451 Crystal Drive, Arlington, VA, 7th floor receptionist.

JAR

22 March 2005

JAK